

ABSTRACT

An improved coupler with contrast ribs for use in a projection system. The coupler supports a projection lens in alignment with a projection optical signal generation device (e.g., a Cathode Ray Tube). The contrast ribs minimize contrast distortion that occurs in the coupler. The coupler defines a cooling chamber between said projection lens and said projection signal generating device and is filled with liquid in order to transport the optical signal between the projection optical signal generation device and projection lens. The contrast ribs change the angle of reflection of stray light rays generated by the projection optical signal generation device and direct a portion of those stray light rays to other contrast ribs. The ribs are preferably coated with a chemical composition that helps allow the ribs to absorb a portion of each ray incident on the rib. Thus each time the stray light ray strikes a rib, a portion of it is absorbed and not reflected back thus minimizing any reductions of the overall picture contrast due to stray light rays. The preferred embodiment is the ribs with a circular shape due to the ease of creating circular grooves.